

GERASIMOV, A.N.

Apparatus for approximating bone fragments of the humerus.
Ortop., travm. i protez. no.1:75'69. (MIRA 16:10)

MOLCHANOVA, D.K.; GERASIMOV, A.N.

Case of intravital diagnosis of tuberous sclerosis of the
brain with changes in the fundus oculi. Vest. oft. 76 no.1:
78-80 Ja-F'63. (MIRA 16:6)

1. Kafedra glaznykh bolezney (zav. - prof. I.F.Vorob'yev)
Saratovskogo meditsinskogo instituta.
(TUBEROUS SCLEROSIS) (EYE—DISEASES AND DEFECTS)

GERASIMOV, A.N. (Sverdlovsk, ul. Ya.Sverdilova d.58, kv.33)

Methodology for surgical treatment of clavicle dislocations.

Ortop., travm. i protez. 25 no.12:62 D '64.

(MIRA 19:1)

1. Submitted May 3, 1963.

KAYZERMAN, M.M., mayor meditsinskoy sluzhby; ZAVRAZHIN, M.K., podpolkovnik meditsinskoy sluzhby; KNYAZEV, S.V., podpolkovnik meditsinskoy sluzhby; KOBYAKOV, N.I., podpolkovnik meditsinskoy sluzhby; DOKUCHAYEV, G.M., podpolkovnik meditsinskoy sluzhby; PLETNEV, N.N., polkovnik meditsinskoy sluzhby; KHOROSHCHEV, V.D., podpolkovnik meditsinskoy sluzhby; GORBACHIK, Ye.D., podpolkovnik meditsinskoy sluzhby; DRUKER, Yu.S.; NAZAROV, K.M.; KOMOGOROV, P.R., polkovnik meditsinskoy sluzhby; KLIMENKO, A.V., podpolkovnik meditsinskoy sluzhby; RYAKHOVSKIY, I.Ye., podpolkovnik meditsinskoy sluzhby; IVAN'KOVICH, F.A.; GUBIN, S.V., kapitan meditsinskoy sluzhby; ZOTOV, I.G., kapitan meditsinskoy sluzhby; LEONOVA, Ye.I.; BUNTOVSKIY, P.A., mayor meditsinskoy sluzhby; GERASIMOV, A.N., podpolkovnik meditsinskoy sluzhby; GUR'YEV, I.A., kapitan meditsinskoy sluzhby; KOLDOBSKIY, S.Z., mayor meditsinskoy sluzhby

Abstracts. Voen. med. zhur. no.10:74-79 0 '65.
(MIRA 18:11)

ACC NR: AP6024377

SOURCE CODE: UR/0280/66/000/002/0196/0208

AUTHOR: Basakerskiy, V. A. ^(Leningrad); Vanyurikhin, G. I. ^(Leningrad), Gerasimov, A. N. ^(Leningrad)

ORG: none

TITLE: Design and calculation of unsteady-state automatic control systems by the "frozen-response" method

SOURCE: AN SSSR. Izvestiya. Tekhnicheskaya kibernetika, no. 2, 1966, 196-208

TOPIC TAGS: unsteady state system, automatic control system, circuit design, function analysis, differential equation

ABSTRACT: The complicated task of the synthesis of an unsteady-state system may be simplified and reduced to the task of synthesis of a steady-state system if the response of unsteady-state elements to a standard input signal, e.g. the step-function, is "frozen," as it were. This may be accomplished by the method of successive approximations, with the first approximation yielding fairly accurate results. The derivation of the subsequent approximations is associated with an increase in the order of the function $\bar{W}(p)$. (This function is equivalent to the transfer function $W(p)$ of steady-state systems.) Hence, it is expedient to simplify the form of the

Card 1/2

ACC NR: AP6024377

signals received at the input of the unsteady-state element, i. e. to approximate them with simple functions. The synthesis of variable-parameter linear systems of this kind may also be accomplished by the fitting method if the solution within the separated segments is sought by freezing the responses of the unsteady-state element to a standard input signal. This method converges when the coefficients of the differential equations describing the system are piecewise-continuous and may be expanded into a Taylor series over a given interval of time. Thus, the problem of the synthesis of unsteady-state systems can be reduced to an algebraic problem. "In conclusion the authors wish to express their profound gratitude to Kh. L. Smolitskiy for assistance in writing Section 3 of the present article." Orig. art. has: 6 figures, 46 formulas.

SUB CODE: 12, 09/ SUBM DATE: 27May64/ ORIG REF: 005/

Card 2/2

GERASENOV, A.N.; LUCHKO, S.V.

Selecting parameters of a two-channel servosystem with electronic digital computer. Izv.vys.ucheb.zav.; prib. 7 no.5:80-86 '64.

(MIRA 17:12)

1. Leningradskaya veyenno-inzhenernaya Krasnoznamennaya akademiya imeni A.F.Mozhayskogo. Rekomendovano akademiye.

AUTHOR: Gerasimov, A.P., Engineer, 117-58-6-24/36

TITLE: The Section of Machine Tool Building and Instruments of the
Mosgorsovnarkhoz (Sektziya stankostroyeniya i instrumenta
Mosgorsovnarkhoza)

PERIODICAL: Mashinostroitel', 1958, Nr 6, pp 35-36 (USSR)

ABSTRACT: At the Tekhnicheskii sovet upravleniya mashinostroyeniya
(Technical Council of the Machinebuilding Administration in the
Moscow City National Economic Council (Mosgorsovnarkhoz),
a 47-member section for machine-tool building and instruments
has been set up. In the chair is the engineer M.M. Berman.
The section takes care of the following problems: 1) general
direction of the technical development of the instrument plants
and of instrument types, 2) general direction of related indu-
stries, e.g. electric apparatus, hydraulic and pneumatic de-
vices; 3) problems of enlarging the output and the auto-
mation of casting equipment; 4) problems of enlarging the out-
put of automatic lines for the processing of turning bodies
and of carpentry equipment. It is planned to modernize the
existing machine tools and to design new types.

1. Machine tool and instrumentation council-Operation

Card 1/1

GERASIMOV, A.P.; NEVZGODIN, A.Ye.; KOTOV, S.I.

Five kilometer of repair work achieved in three hours. Put' 1 put.
khoz. 8 no.9:5-7 '64. (MIRA 17:11)

1. Zamestitel' nachal'nika otdeleniya dorogi, stantsiya Orel, Moskovskoy dorogi (for Gerasimov). 2. Nachal'nik Orlovskoy distantzii puti Moskovskoy dorogi (for Nevzgodin). 3. Zamestitel' nachal'nika Orlovskoy distantzii puti Moskovskoy dorogi (for Kotov).

GERASIMOV, A. S.

Organizatsiia raboty stantsii v voynnykh usloviakh. (Organization of station service under wartime conditions). Moskva, Gos. transp. shkol-dor. izd-vo, 1942.
110 p. diagrs. DLC: TF652.G45

SO: Soviet Transportation and Communications, A. Bibliography, Library of Congress, Reference Department, Washington, 1952, Unclassified.

GERAST'Y, A. S.

Yakrimal'noe ispol'zovanie emkos i stantsii. (The maximum utilization of station capacity). (Zhel-dor. transport, 1964, no. 8-9, p. 17.)

DLC: HE7.25

SO: Soviet Transportation and Communications. A Bibliography. Library of Congress. Reference Department, Washington, 1962, Unclassified.

GERASINOV, A.S.
GERASINOV, A.S., kandidat tekhnicheskikh nauk

Methods of calculating and establishing specializations in classification yards. Tekh.zhel.dor.7 no.8:10-13 Ag'48. (MLRA 8:11)
(Railroads--Making up trains)

OKRASIMOV, A.S., kand. tekhn. nauk.

Intensifying the circulation of cars on central railroads, Sbor.
trud. Moad. shel. transp. no.1:86-106 '52. (MIRA 11:3)
(Railroads--Management)

GERASIMOV, Aleksandr Stepanovich, kandidat tekhnicheskikh nauk; YAKOVLEV,
Ya.G., inzhener, redaktor; YUDZON, D.M., tekhnicheskii redaktor

[Manual for train dispatchers and section officers] Rukovodstvo
poezdnomu dispetcheru i dezhurnomu po otdeleniiu. Izd. 2-oe. Mo-
skva, G6s.transp.shel-dor.isd-vo, 1955. 354 p. (MIRA 9:3)
(Railroads--Train dispatching)

~~GERASIMOV, Aleksandr Stepanovich~~, kandidat tekhnicheskikh nauk; DLUGACH,
B.A., redaktor; DUBROVA, Ye.N., tekhnicheskii redaktor

[Handling facilities of hump yards] Pererabatyvaiushchaia sposobnost'
sortirovochnykh stantsii. Moskva, Gos.transp.zhel-dor. izd-vo,
1957. 148 p. (MIRA 10:8)
(Railroads--Hump yards)

GERASIMOV, A.T. komandir vertoleta Mi-4

Instrument flight. Grazhd, av. 18 no.6:8 Je '61. (MIRA 14:7)

(Helicopters--Piloting)
(Instrument flying)

GTRASTON, L. .

"Problems of Ship's Statics." Published by USSR Ministry of Armed Forces,
Moscow, 1947.

GERASIMOV, A.V.

BLAGOVESHCHENSKIY, S.N.; GERASIMOV, A.V., kandidat tekhnicheskikh nauk, re-
tsezent; MEYLUKAS, V.F., kandidat tekhnicheskikh nauk, redaktor; PE-
TERSON, M.M., tekhnicheskiy redaktor.

[Rolling and pitching of ships] Kachka korablia. Leningrad, Gos.
science izd-vo sudostroitel. promyshl., 1954. 520 p. (MLRA 8:2)
(Stability of ships)

GERASIMOV, Anatoliy Viktorovich; PASTUKHOV, Anatoliy Ivanovich; SOLOV'YEV,
Vladimir Ivanovich; KULINICH, D.D., red.; SRIBNIS, M.V., tekhn.red.

[Principles of the theory of ships] Osnovy teorii korablia. Moskva,
Voen.isd-vo M-va obor.SSER, 1959. 372 p. (MIRA 12:5)
(Marine engineering)

SHMYREV, Aleksandr Nestorovich; MORENSHIL'DT, Vera Aleksandrovna; IL'INA, Sof'ya Glebovna; FATEYEV, A.V., doktor tekhn. nauk, prof., retsenzent; KHOLODILIN, A.M., kand. tekhn. nauk, retsenzent; LEVITIN, S.G., inzh., retsenzent; GERASIMOV A.V., kand. tekhn. nauk, nauch. red.; CHERTKOV, R.I., kand. fiz.-mat. nauk, nauch. red.; KAZANOV, Yu.S., red.; ERASTOVA, N.V., tekhn. red.

[Ship stabilizers] Uspokoiteli kachki sudov. Leningrad, Gos. soiuзное izd-vo sudostroitel. promyshl., 1961. 515 p. (MIRA 14:12)
(Stability of ships)

1. BAKULEV, A. N., PROF., GERASIMOV, A. V.

2. USSR (600)

4. Lungs - Surgery

7. Multi-stage radical pulmonary surgery. Khirurgiia 8, '52.

9. Monthly List of Russian Accessions, Library of Congress, January 1953. Unclassified.

Grasimov, A.V.

4462/408 NOVEMBER 1968 (5)

Академија наук ССРС. Институт сарнога дела

Library Problems: Number 1: parabolic westwardly poleynith
independent (Scientific Problems in Developing and Exploiting
Mineral Resources) Moscow, 196- to 197, 1979. 333 p. 3,000
copies printed. Extra slip inserted.

Assoc. Ed.: N.Y. Mel'nikov, Corresponding Member, USSR Academy of Sciences; Ed. of Publishing House: Yu.F. Vasil'yev; Tech. Ed.: P.S. Kostina.

PURPOSE: This book is intended for coal and ore mining engineers.

Coverage: The collection of articles reports on the results of scientific studies conducted by members of the Institute of Mining Engineering of the AN SSSR on problems of developing and exploiting coal seam deposits. The book is divided into two parts. Part I discusses the development and exploitation of coal deposits. The trends in developing underground and surface exploitation methods, the scientific basis, principles applied in selecting exploitation methods for different types of coal, modern technical equipment at the basic elements in the coal industry, the determination of reserves, and the rationalization of mining are discussed. Part II is devoted to problems in the development and exploitation of ore deposits, the draining and mining of them, and the use of modern technical equipment. It also contains information on the need in underground exploitation of deposits in the area of the KMA (Kursk Magnetic Anomaly), the open pit mining method used in exploiting the rich KMA ores, the determination of sizes of ore bodies, and further ore dressing. The book is dedicated to Academician Lev Mikhailovich Shorin, a mining engineer. The articles are accompanied by diagrams, tables, and bibliographic references.

! WARNING TO STUDENTS

Scientific Problems (Cont.)

156

PART II. PROBLEMS IN THE DEVELOPMENT AND EXPLOITATION OF ORE DEPOSITS

Man'kovskiy, G.I. Problems in Water Drainage and in Special Methods of Ore Mining in Developing the Rich Iron Ore Deposits of the Belgorodskiy Region	209
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Shkiba, B.A. Open-cut Exploitation of Rich KPA (Turk) Magnetic - Anomally Ores	244
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25 2008

GERASIMOV, A.V.

Grader for work on shoulders and embankments. Avt.dor. 22 no.6:27
Je '59. (MIRA 12:9)

(Graders(Earthmoving machinery))

KUZ'MIN, V.V.; GERASIMOV, A.V.; DNEPROVA, N.N., red.;
CHERKASKAYA, T.T.; tekhn. red.

[Automatic devices in woodworking combines] Avtomaticheskie
ustroistva na derevoobdelochnykh kombinatakh. Leningrad
Gosstroizdat, 1963. 59 p. (MIRA 16:12)
(Automatic control) (Lumber--Drying)

1 22401-66 INT(1)/SWA(1)
ACC NR: AP6009888 SOURCE CODE: UR/0413/66/060/004/0080/0081

INVENTOR: Gerasimov, A. Ya.; Khrushchev, V. V.; Lur'ye, L. Z.; Shtamm, Yu. P.;
Ivanov, V. V.; NOKH, D. K. A.

ORG: none

TITLE: Device for the display of voltage curves on the screen of a cathode-ray oscilloscope. Class 42, No. 179019 [announced by the Special Design Office, AN Estonian SSR (Spetsial'noye Konstruktorskoye byuro AN Estonskoy SSR)]

SOURCE: Izobreteniya, promyshlennyye boraztzy, tovarnyye znaki, no. 4, 1966, 80-81

TOPIC TAGS: oscilloscope, data display, visual signal, display device

ABSTRACT: The Author Certificate introduces a device for displaying voltage curves on an oscilloscope screen. For enhanced speed and accuracy, the electronic switches are fitted with elements which correct the characteristics of the pickups and the tubes. A contactless ring distributor of rectangular pulses is included; it is synchronized by the voltage of the generator which feeds the pickups. In order to move the cali-

Card 1/2 UDC: 681.14

L 22401-66
ACC NR: AP6009888

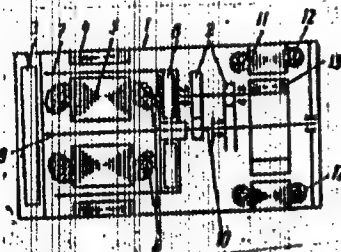


Fig. 1. Display device

1 - Electronic switches; 2 - pickups;
3 - oscilloscope; 4 - calibration
pickup; 5 - delay unit.

ibration pickup is connected to the electronic switch through a controlled delay unit
(see Fig. 1). Orig. art. has: 1 figure. [DW]

SUB CODE: 09/ SUBM DATE: 12Aug64/

Card 2/2

SOV/137-58-9-19034

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 9, p 128 (USSR)

AUTHOR: Gerasimov, A.Ye.

TITLE: An Investigation of the Resistance of Alloys to Flow in Dies with Deep Impression Cavities (Issledovaniye soprotivleniya istecheniyu splavov v shtampakh s glubokoy polost'yu ruch'ya)

PERIODICAL: V sb.: Legkiye splavy. Nr I, Moscow, 1958, pp 458-471

ABSTRACT: An investigation is made of the effect of change in the shape of die impression cavities, temperature of deformation, and the thickness of the starting blank upon resistance to flow. Within the impression cavity, changes were made in the draft angle, the fairing radii, the width of the cavity, and the distance between impressions. AK6, D16, V95, MA2, and MA8 alloys were utilized. It is established that, all other conditions being equal, the depth to which metal will flow into the impression cavity rises with an increase in the fairing radius, decrease in draft angle, and increase in cavity width, and will also increase if the cavity walls are undercut, if the distance between impressions is reduced, and if the thickness of the billet is increased. The greatest height of metal flow is

Card 1/2

SOV/137-58-9-19034

An Investigation of the Resistance of Alloys to Flow in Dies (cont.)

obtained with AK6 in the case of the Al alloys and with MA2 among the Mg alloys. Reduction in the temperature at the close of deformation sharply diminishes the depth to which metal will flow in the impression cavity.

Yu. L.

1. Metals (Liquid)--Analysis
2. Dies--Performance
3. Dies--Deformation
4. Dies--Design

Card 2/2

GERASIMOV, A.Z., inzh.

Experience with motorships of the "Eratsk" type. Biul.tekh.-ekor.-
inform.Tekh.upr.Min.mor.flota 5 no.4:42-47 '60. (NIRA 15:1)

1. Baltiyskoye gosudarstvennoye morskoye parokhodstvo.
(freighters)

GERASIMOV, A.Z., refrizheratornyy mekhanik

The refrigerator plant on the motorship "Estonia." Biul. tekhn.-
ekon. inform. Tekhn. upr. Min. mor. flota 7 no.4:39-48 '62.
(MIRA 16:4)

1. Teplokhod "Estoniya".
(Motorships) (Cold storage on shipboard)

BURMISTROV, N.S.; GERASIMOV, A.Z., refriheratornyy mekhanik

~~Ukrainian Motorship~~
Increasing the speed of the motorship "Estonia." Biul. tekhn.-ekon.
inform. Tekh. upr. Min. mor. flota 7 no.3:16-20 '62. (MIRA 16:5)

1. Teplokhod "Estoniya". 2. Starshiy mekhanik teplokhoda "Estoniya"
(for Burmistrov).
(Estonia (Motorship)) (Ship propulsion--Speed)

ACC NR: AN7004818

SOURCE CODE: UR/9022/67/000/029/0004/0004

AUTHOR: Gerasimov, B. (Special correspondent)

ORG: none

TITLE: Transpolar atomic power station

SOURCE: Sovetskaya Rossiya, no. 29, 03 Feb 67, p. 4, col. 2-4

TOPIC TAGS: nuclear power plant, nuclear energy

ABSTRACT:

The article is about the atomic power station which is being built in Bilibino. Uranium fuel will operate four nuclear reactors.

SUB CODE: 18/ SUBM DATE: none/ ATD PRESS: 5114

Card 1/1

UDC: none

GERASIMOV, B.A.

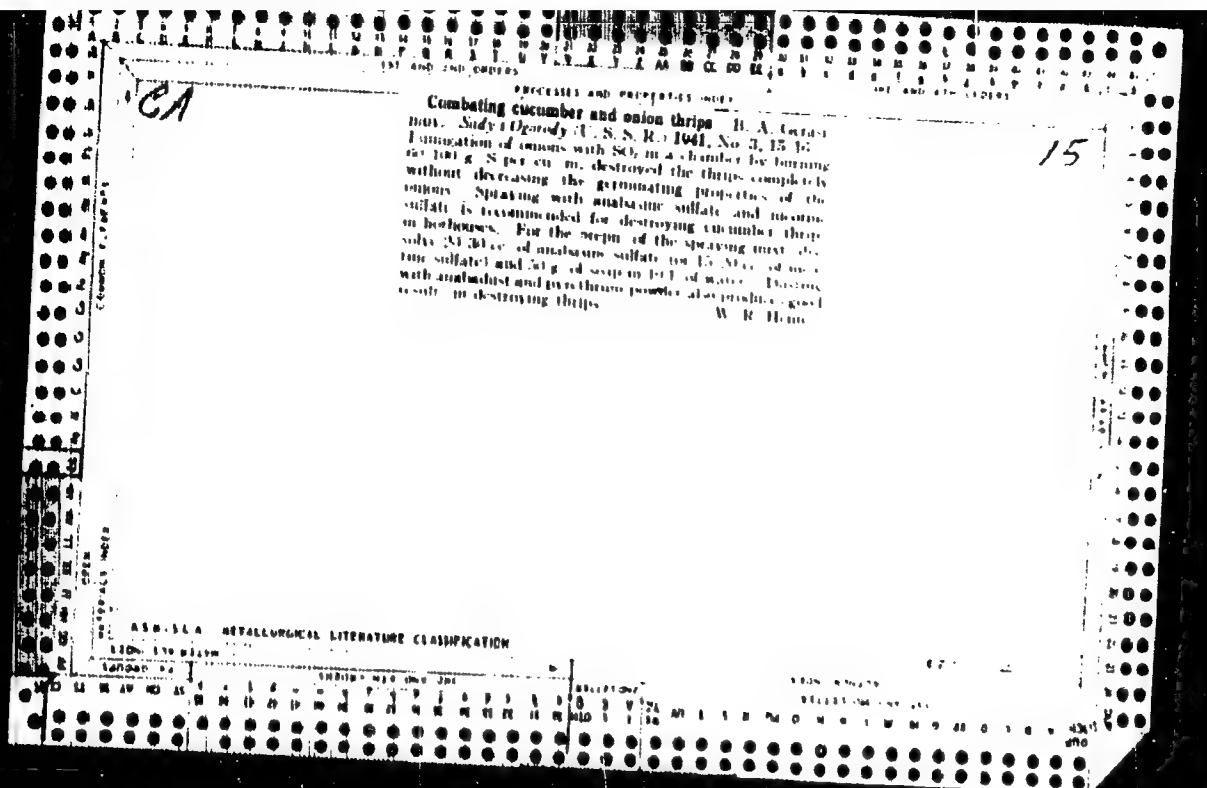
Titrovolumetric method for determining boron in plant ash.
Soob.AN Gruz.SSR 26 no.2:201-206 '61. (MIRA 14:4)

1. Gruzinskiy sel'skokhozyaystvennyy institut, Tbilisi. Predstavleno
akademikom L.I.Dzhaparidze.
(Boron--Analysis) (Plants--Chemical analysis)

GERASIMOV, B.A.; SLECHKINA, T.D.

Purification of sulfur hexafluoride by the removal of impurities formed during an electric discharge. Zhur. prikl. khim. 37 no.9:2063-2066 S '64.

(MIRA 17:10)



GERASIMOV, P.A., -

GERASIMOV, P.A., and OSNITSKAYA, E. A. Control of Vegetable Pests and Diseases, State Publishers of Agricultural Literature, Moscow, 1944, 95 pp. 44.4 G31

So: Sira SI-90 53, 15 Dec 1953

ANAL. LIT. METALLOGRAPHICAL LITERATURE CLASSIFICATION									
ANAL. LIT.					METALLOGRAPHICAL LITERATURE CLASSIFICATION				
ANAL. LIT.					METALLOGRAPHICAL LITERATURE CLASSIFICATION				
<p>CP</p> <p>Determination of small quantities of arsenic in wine. <i>Vinanalyse i Vinanalyse</i> and G. I. Berlinc. <i>Vinanalyse i Vinanalyse</i> No. 10, 8-10(1940).—This method is a modification of the Burkard and Wulfborn method (C.A. 30, 11747). The mineralization and distn. procedures are simplified. A mixt. of KCl, FeSO₄, and KBr is used as reducing agent. The color comparison is carried out in Nessler tubes. M. Hirsch</p> <p>16</p>									

GERASIMOV, B. A.

Gerasimov, B. A. and Osnitskaya, Ye. A. "Results of tests of some insectofungicides in vegetable farming," Trudy nauch.-issled, in-ta ovoshch. khoz.-va, Vol.I, 1948, p. 219-40 - Bibliog: 21 items

SO: U-3264, 10 April 1953, (Letopis 'Zhurnal 'nykh Statey, No. 3, 1949)

GERASIMOV, B. A.

Gerasimov, B. A. "Hites and ticks which are harmful to the union, and the fight against them," Trudy nauch.-issled. in-ta oyedch. Khov.-va, Vol. I, 1968, p. 281-27 - Bibliogr: 18 items

SO: U-3264, 10 April 1953, (Letovts 'Zhurnal' Rossi State, No. 3, 1949)

GERASIMOV, B. A.

Gerasimov, B. A. "Struggle with tobacco thrips in cucumber production," Trudy
nauch.-issled. in-ta ovoshch. khoz.-va, Vol. 7, 1958, p. 298-300

SO: U-3260, 10 April 1953, (Leningrad 'Zhurnal' 'Trudy Statist. No. 3, 1953)

GERASIMOV, B. A.

Gerasimov, B. A. "Carrot moths, pale meadow moths, and measures for their control,"

Trudy nauch.-issled. in-ta ovoshch. khoz.-va, Vol. I, 1948, p. 301-17 -

Bibliog: 8 items

SO: U-3264, 10 April 1953, (Letopis 'Zhurnal 'nykh Statey, No. 3, 1949)

GEFASIMOV, E. A.

GEFASIMOV, E. A. "Treatment of Onion Seed and Cabbage Seedlings," Sad i Ogorod, no.3, 1949, pp. 56-57. 80 Sal3

So: Sira 81-90 53, 15 Dec 1953

GFRAS'OV, B. A.

GFRAS'OV, B. A. "Star Nematode of Onion and Garlic," Sad i Ogorod, no. 9, 1949, p.68,
87 Sal

So: Sira S1-90 53, 15 Dec 1953

GERASIMOV, B.A.

Measures for combating the bulb eelworm which damages onions
and garlic. Trudy probl. i tek.soveshch. no.3:223-231 '54.

(MLRA 8:5)

1. Nauchno-issledovatel'skiy institut ovoshchnogo khozyaystva.
(Onions--Diseases and pests) (Garlic--Diseases and pests)
(Nematoda)

KIR'YANOVA, Ye.S.; GERASIMOV, B.A.; MERZHEVSKAYA, O.I.; POGOSYAN, E.Ye.

Appendix 3: Recommendation for combating the onion bulb eelworm
(*Ditylenchus allii* (Beijerinck, 1883)). Trudy probl. i tem.so-
veshch. no.3:255-257 '54. (MIRA 8:5)

1. Zoologicheskii institut Akademii nauk SSSR, Nauchno-issle-
dovatel'skii institut ovoshchnogo khozyaystva, Institut biologii
Akademii nauk Belorusskoy SSR, Zoologicheskii institut Akademii
nauk Arnyanskoy SSR.

(Nematoda) (Onions--Diseases and pests)

GETASINOV, B. A.

10689* (Application of DDT and Hexachlorane (Benzene Hexachloride) to Vegetable Culture.) Primernye preparaty DDT i geksahlorana v ovshebnom khoziaistvo. B. A. Getasinov. Sad i Ogorod, 1954, no. 4, Apr., p. 24-27. Control to protect beneficial insects and animals and preserve quality of products. Tables.

GERASIMOV, BORIS ALEKSANDROVICH

N/5
633.62
.03

Vrediteli i Bolezni Oboshchnykh Kul'tur (Pests and Disease in Vegetable Culture, By) B. A. Gerasimov I E. A. OSNITSKAYA. Moskva, Selkhozgiz, 1957. 155 P. Illus. (Bibliotekha Po Ovoshchevodstvu. Vyp. 15)

USSR / Cultivated Plants. Fruits, Berries, Nutbearing, M-6
Teas.

Abs Jour : Ref Zhur - Biologiya, No 2, 1959, No. 6457

Author : Gerasimov, B. A.
Inst : Georgian Agricultural Institute
Title : The Role of Some Micronutrients in the
Phenomenon of Chlorosis of Grapevine

Orig Pub : Soobshch. AM GruzSSR, 1957, 18, No 6, 733-740

Abstract : The dynamics of the content of Fe, Mn and Cu
in the ashes of leaves of chlorotic vines of
Goruli mtsvane, Aligote and Pino shavi,
grafted on rootstocks 3309 and healthy shrubs
of Pino shavi, grafted on rootstock 5-b, b,
were studied at the Georgian Agricultural
Institute. A more intensive process of
accumulation of mineral substances was found

Card 1/2

USSR / Cultivated Plants. Fruits, Berries, Nutbearing, M-6
Teas.

Abs Jour : Ref Zhur - Biologiya, No 2, 1959, No. 6457

in leaves of chlorotic vines, than in the healthy ones. Healthy leaves were richer in Fe and Mn, but poorer in Cu. The ratio of Mn to Fe was higher in ashes of healthy leaves, than in those of diseased ones. Virus type chlorosis, in which this ratio was disturbed, was found in the Goruli mtsvane variety. -- R. I. Serebryanny

Card 2/2

150

GERASIMOV, B.A., kand.sel'skokhozyaystvennykh nauk

Chemicals used in controlling vegetable pests. Zashch.rast.ot
vred.i bol. 4 no.3:41-42 My-Je '59. (MIRA 13:4)
(Vegetables--Diseases and pests) (Insecticides)

BATIASHVILI, I.D.; BEY-BIYENKO, G.Ya.; BOGDANOV-KAT'KOV, N.N.; GERASIMOV,
E.A.; GILYAROV, M.S.; DMITRIYEV, G.V.; ZVEREZOMB-ZUBOVSKIY, Ye.V.;
ZIMIN, L.S.; KOLOBOVA, A.N.; MEDVEDEV, S.I.; MISHCHENKO, A.I.;
PETROV, A.I.; RYABOV, M.A.; SAVZDARG, E.E.; SELIVANOVA, S.N.;
SKORIKOVA, O.A.; TROPKINA, M.F.; SHAPOSHNIKOV, G.Kh.; SHECHEGOLEV,
V.H., prof., doktor sel'skokhoz.nauk; ESTERBERG, L.K.; YAKHONTOV,
V.V.; REUTSKAYA, O.Ye., red.; CHUNAYEVA, Z.V., tekhn.red.

[Classification of insects on the basis of damage to crops] Opre-
delitel' nasekomykh po povrezhdeniyam kul'turnykh rastenii. Izd.4,
perer. i dop. Leningrad, Gos.izd-vo sel'khoz.lit-ry, 1960. 607 p.
(MIRA 14:1)

(Insects, Injurious and beneficial)

VOLKOV, Aleksandr Nikolayevich; GERASIMOV, B.A.; ZARING, P.V.; MUSHNIKOVA,
K.S.; NIKIFOROV, A.M.; PROKOPENKO, S.F.; POPOV, S.D.; CHUVAKHIN,
V.S.; MIKHENKOVA, V.R., red.; GOR', Z.D., tekhn.red.; GUREVICH,
M.M., tekhn.red.

[Manual on controlling pests and diseases of farm crops] Posobie
po bor'be s vreditel'nykh i boleznykh sel'skokhozyaystvennykh
kul'tur. Izd. 10, ispr. i dop. Moskva, Gos. izd-vo sel'khoz. lit-ry,
1960. 615 p. (MIRA 13:11.)
(Agricultural pests) (Plant diseases)

ALEKSANDROV, S.V., kand.sel'skokhoz.nauk; BOGUSHEVSKIY, A.A., kand.tekhn.
nauk; VASHCHENKO, S.P., kand.sel'skokhoz.nauk; GERASIMOV, B.A.,
kand.sel'skokhoz.nauk; GROMOV, N.G. [deceased]; KORBUT, V.A.;
KUDRIVICH, I.A.; MAMAYEV, M.G., kand.tekhn.nauk; NOVIKOV, A.P.;
OSNITSKAYA, Ye.A.; SIMANOVSKIY, A.Yu.; SLEPTSOV, S.A.; SPIRIDONOVA,
A.I.; TARAKANOV, G.I., kand.sel'skokhoz.nauk; CHENYKATEVA, Ye.A.;
KITAYEV, S.I., red.; FILATOV, N.A., sasluzhennyy agronom RSFSR;
GRUDIN/KINA, A.P., red.; MARTYNOV, P.V., red.; ARTSYBASHEVA, A.P.,
tekhn.red.; BARBASH, F.L., tekhn.red.

[Vegetable growing under cover] Ovoshchevodstvo zashchishchennogo
grunta. Moskva, Izd-vo M-va sel'.khoz.SSSR, 1960. 279 p.

(MIRA 13:12)

(Vegetable gardening)
(Hotbeds)

(Greenhouses)

OSNITSKAYA, Ye.A.; GERASIMOV, B.A.; LEONOVA, T.S., red.; SAYTANIDI, L.D.,
tekhn.red.

[Control of vegetable diseases and pests outdoors] Bor'ba s vre-
diteliami i bolezniami ovoshchnykh kul'tur v otkrytom grunte.
Izd.2., dop. Moskva, Izd-vo M-va sel'.khoz.RSFSR, 1960. 28 p.
(MIRA 14:6)

(Vegetables—Diseases and pests)

GERASIMOV, B.A.; OSNITSKAYA, Ye. A.; SAVZDARG, V.E., red.; GOR'KOVA,
Z.D., tekhn. red.; TRUKHINA, O.N., tekhn. red.

[Pests and diseases of vegetables] Vrediteli i bolezni ovosich-
nykh kul'tur. Izd.4., ispr. i dop. Moskva, Sel'khozgiz, 1961.
535 p. (MIRA 15:6)

(Vegetables--Diseases and pests)

GERASIMOV, B.A.

Use of magnesium ferrocyanide for the titrimetric determination of potassium in plant materials. Zhur. anal. khim. 16 no. 4:503-504
Jl-Ag '61. (MIRA 14:7)

1. Georgian Agricultural Institute, Tbilisi.
(Potassium--Analysis)

GERASIMOV, B. A.; OSNITSKAYA, Ye. A.; SIDOROV, A. I.

Sulfur smoke pots. Zashch. rast. ot vred. i bol. 5 no.10:
34-35 0 '60. (MIRA 16:1)

1. Nauchno-issledovatel'skiy institut ovoshechnogo khozyaystva
RSFSR, st. Perlovskaya, Moskovskoy zheleznoy dorogi.

(Fumigation)

BAYANDIN, F.A. (Murmansk); SHVETSOV, I.M.; TIMOFEYeva, N.V.; KOVAL', V.P.;
 KOZLOVA, E.Z.; TRET'YAKOV, N.I. (Kaliningrad); MAMEDOV, E.Sh.
 (Poselok Martuni, AzerSSR); BOROVYY, Ye.M.; DULAYEV, S.G. (Grodno);
 GERASIMOV, B.A. (Lugansk); MEL'NIK, L.A. (Chernovtsy); MIGAL', L.A.;
 KUBANOV, A.G.; GOROVENKO, G.G. (Kiyev); SHAROV, B.K. (Chelyabinsk);
 SHUVALOVA, Z.A. (Sverdlovsk) NEYMARK, I.I.; ARYAYEV, L.N. (Odessa);
 KABANOV, A.N.; KONNOVALOV, Yu.S.; ZAK, V.I. (Orenburg); MIKHAYLOV, M.M.;
 SEZ'KO, A.D. (Voronezh); SHALAYEV, M.I.; DONIN, V.I. (Saratov).

Abstracts. Grudn. khir. 5 no.3:110-126 My-Je'63 (MIRA 17:1)

1. Iz kafedry normal'noy anatomii Ryazanskogo meditsinskogo in-
 stituta imeni akademika I.P.Pavlova (for Shevtsov). 2. Iz Sochin-
 skogo nauchno-issledovatel'skogo instituta kurortologii i fizio-
 terapii Ministerstva zdравookhraneniya RSFSR (for Timofeyeva).
 3. Iz khirurgicheskogo otdeleniya Ternopol'skoy klinicheskoy
 gorodskoy bol'nitsy (for Koval'). 4. Iz kafedry topograficheskoy
 anatomii i operativnoy khirurgii (zav. - prof. A.P. Sokolov).
 Permskogo meditsinskogo instituta (for Kozlova). 5. Iz khirur-
 gicheskogo otdeleniya (zav. - Ye. M. Borovyy) Rovenskoy oblast-
 noy bol'nitsy (glavnyy vrach - UkrSSR V.M. Vel'skiy) (for Borovyy).

(Continued on next card)

BAYANDIN, P.A.----- (continued) Card 2.

6. Iz fakul'tetskoy khirurgicheskoy kliniki (dir. - prof. I.M. Popov'yan) i gospital noy terapevticheskoy kliniki (dir. - prof. L.S.Shvarts) lechelnogo fakul'teta Saratovskogo meditsinskogo instituta (for Migal'). 7. Iz kafedry fakul'tetskoy khirurgii (zav. - prof. I.I.Neymark) Altayskogo meditsinskogo instituta (for Neymark). 8. Iz Novosibirskogo gorodskogo protivotuberkuleznogo dispansera (for Kabanov). 9. Iz kafedry fakul'tetskoy khirurgii (zav. - prof. I.A.Ivanov) Permskogo meditsinskogo instituta (for Shalayev).

GERASIMOV, B.A., kand.sel'skokhoz.nauk; TER-SIMONYAN, L.G.

Chlorophos in vegetable gardens. Zashch. rast. ot vred. i bol. 8
no.7:38 J1 '63. (MIRA 16:9)

1. Nauchno-issledovatel'skiy institut ovoshchnogo khoz'yaystva,
Perlovskaya, Moskovskoy obl.

GERASIMOV, B.A.; OSNITSKAYA, Ye.A.; MILOVIDOVA, N.D., red.;
STREL'TSOVA, N.P., red.

[Pests and diseases of vegetable crops grown outdoors]
Vrediteli i bolezni ovoshchnykh kul'tur v otkrytom
grunte. Moskva, Kolos, 1964. 46 p. (MIRA 18:1)

Gerasimov, B.K.

AUTHOR: Gerasimov, B.K.

117-5-17/28

TITLE: Face Plate for Boring (Planshayba dlya rastochnykh rabot)

PERIODICAL: Mashinostroitel', 1958, # 3, p 35 (USSR)

ABSTRACT: The article contains information on a boring faceplate, designed for milling, drilling and boring machines having no radial cutter feed. It permits smooth radial displacement of the tool (with the tool carrier) in the cutting process and enables the performance of work which is difficult and sometimes impossible such as boring holes and turning the faces on ends of long levers, boring flanges on cross pipes, T-pipes, etc.
There is 1 figure.

AVAILABLE: Library of Congress

Card 1/1.

25(7)

SV/117-59-3-28/37

AUTHOR: Gerasimov, B.K.

TITLE: A Disk-Shaped Parting-Off Cutter (Diskovyy otreznoy rezets)

PERIODICAL: Mashinostroitel', 1959, Nr 3, p 40 (USSR)

ABSTRACT: The short note contains information on a slight design change in the parting-off disc cutter. The sides will be ground not on the bevel, but like screwline surfaces, which eliminates the contact and the wear of the cutter edges (Figure 1). Such cutters will be ground on a universal tool grinder with the use of a fixture shown in drawing (Figure 2). The grinding process is described. There are 2 diagrams.

Card 1/1

BAKUT, P.A.; BOL'SHAKOV, I.A.; GERASIMOV, B.M.; KURIKSHA, A.A.;
REPIN, V.G.; TARTAKOVSKIY, G.P., prof.; SHIROKOV, V.V.;
ALEKSANDROVA, A.A., red.; BELIAYEVA, V.V., tekhn. red.

[Problems of the statistical theory of radar] Voprosy statisticheskoi teorii radiolokatsii. [By] P.A.Bakut i dr.
Pod obshchei red. G.P.Tartakovskogo. Moskva, Sovetskoe radio. Vol.1. 1963. 423 p. (MIRA 16:5)
(Radar)

Card 2/3

I, 45828-65

ACCESSION NR AM5002719

SUBMITTED: 30 Jun 64

NO REF SOV: 046

SUB CODE: DC

OTHER: 024

"APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000514810012-9

Card 3/3

APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000514810012-9"

GERASIMOV, B.S.

USSR/Plants Diseases - Diseases of Cultivated Plants.

0.

Abs Jour : Ref Zhur - Biol., No 4, 1958, 15974

Author : Yu. A. Leont'yeva, B.S. Gerasimov

Inet : Kuybyshev Agricultural Institute.

Title : The Periods of Corn Seed Treatment in a Mixture of
Granozan with Hexachloro cyclohexane and Merkuran.
(Sroki protravlivaniya semyan kukuruzy smes'yu granozana
s geksa khloranom i merkuranom).

Orig Pub : Izv. Kuybyshevskogo s.-kh. in-ta, 1957, 12, 73-79.

Abstract : The best results in controlling corn diseases and pests
were obtained from treating the seeds in merkuran or a
mixture of granozan (a synonym of HIUIF-2) with hexachlo-
ro cyclohexane. Their effectiveness increases in propor-
tion to the proximity of sowing time that the treatment
has been made. The treating of the corn seeds in 1955

Card 1/2

USSR/Plant Diseases - Diseases of Cultivated Plants .

0.

Abs Jour : Ref Zhur - Biol., No 4, 1958, 15974

before sowing with markuran or a mixture of granozan with hexachloro cyclohexane reduced root rot infection in the shoots by 2-6 times together with wire worm damage, and cut bacteriosis in the plants by 3 times, while raising the number of bunches and plants remaining by $1\frac{1}{2}$ - 2 times and the cob yield by 60-85%.

Card 2/2

- 3 -

GERASIMOV, B.S.

Occupational skin lesions in workers of the paper industry. Vest.
ven. i derm. no.6:11-12 N-D '54. (MLRA 8:2)

1. In gorodskoy bol'nitsy No.16 Arkhangel'skogo bumazhnogo kombinata
(glav. vrach P.I.Vagin)

(OCCUPATIONAL DISEASES

skin dis. in workers of paper indust.)

(SKIN, diseases

occup., in workers of paper indust.)

GERASINOV, B.S., glavnyy inzhener; KOLODYAZHNYI, P.T., glavnyy mekhanik.

Narrow-gauge motor car. Les. prom. 35 no.2:22a F '57.

(MLRA 10:4)

1. Vogul'skiy lespromkhoz.
(Railroad motor cars)

LEONT'YEVA, YU.A., dotsent; GERASIMOV, B.S., dotsent; TRUSHKINA, L.R., aspirant; SOBOLEVA, Ye.M., kand. sel'skokhoz. nauk; SHARIPOV, B.S., nauchnyy sotrudnik (Tashkent); SAF'YANOV, S.P., aspirant; KRALL, E.L., kand. biolog. nauk; YULDASHEVA, Kh.Yu., mladshiy nauchnyy sotrudnik; KUZNETSOVA, P.A., agronom (Kostroma); ZHALNINA, L.S., mladshiy nauchnyy sotrudnik; SENCHENKO, M.G., mladshiy nauchnyy sotrudnik; SINITSYNA, A.A., nauchnyy sotrudnik; GOLUBKIN, V.G., starshiy nauchnyy sotrudnik; BOGOVIK, I.V., kand. biolog. nauk (L'vov).

Brief news. Zashch. rast. ot vred. i bol. 9 no.10:52-56 '64
(MIRA 18:1)

1. Kafedra zashchity rasteniy Kuybyshevskogo sel'skokhoz naystvennogo instituta (for Leont'yeva, Gerasimov). 2. Samarkandskiy universitet (for Trushkina). 3. Kazakhskiy institut zashchity rasteniy (for Saf'yanov). 4. Institut zoologii i botaniki AN Estonskoy SSR, Tartu (for Krall'). 5. Sredneaziatskiy institut zashchity rasteniy (for Yuldasheva). 6. Institut lubyanykh kul'tur (for Zhalnina, Senchenko). 7. Institut sadovodstva nechernozemnoy polosy (for Sinitsyna). 8. Novosibirskaya sel'skokhozyaystvennaya opytная stantsiya (for Golubkin).

*GERASIMOV, B.V. (Moskva)

.. .. .

Machine for the inspection and measurement of lightweight
fabrics. Shvein.prom. no.4:24-28 JL-Ag '63. (NINA 16:9)

L 14501-66 EWT(m)/T DJ
ACC NR: AP6006344

SOURCE CODE: UR/0413/66/000/002/0066/0066

INVENTOR: Kaplanskiy, A. F.; Gerasimov, B. Ya.; Arkhipov, V. V.

ORG: none

TITLE: Single-stage centrifugal supercharger. Class 27, No. 178014.

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 2, 1966, 66

TOPIC TAGS: supercharger, centrifugal supercharger, internal combustion engine

ABSTRACT: The proposed supercharger contains a housing with an impeller and a

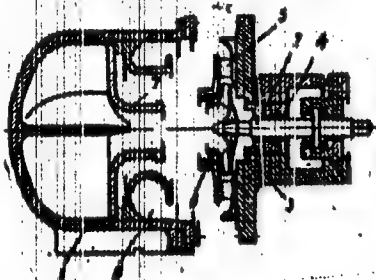


Fig. 1. Supercharger

1 - Housing; 2 - impeller; 3 - cap;
4 - impeller bearings; 5 - vaned diffuser;
6 - covering disk seal; 7 - intake manifold; 8 - pressure chamber.

Card 1/2

UDC: 621.515.5-146.1

L 14501-66

ACC NR: AP6006344

removable circular cap (see Fig. 1). To simplify assembly and regulation of the clearances, the impeller with bearings, the vaned diffuser, and the seal of the covering disk of the impeller wheel are located in the cap, while the intake manifold and pressure chamber are mounted in the housing. Orig. art. has: 1 figure. [TN]

SUB CODE: 21/ SUBM DATE: 08Apr64/ ATD PRESS: 4199

OC
Card 2/2

34777-00 (AT-12)

ACC NR: AR6017200

SOURCE CODE: UR/0058/65/000/012/A033/A033

AUTHOR: Andriashin, A. V.; Gerasimov, B. Ya.; Yekator, A. B.; Ivchenko, V. Ye.;
Keshkov, N. V.; Smirnov, V. I.; Chernukhin, V. L.

TITLE: Multidimensional analyzer with preliminary processing of the information and with combined-type memory

SOURCE: Ref. zh. Fizika, Abs. 12A317

REF SOURCE: Tr. 6-y Nauchno-tekhn. konferentsii po yadern. radioelektron. T. 2. M., Atomizdat, 1965, 147-159

TOPIC TAGS: multichannel analyzer, slow neutron, neutron spectrum, angular distribution, ferrite core memory, magnetic recording tape, computer component, *NEUTRON ENERGY DISTRIBUTION*

ABSTRACT: The authors describe a multidimensional analyzer, intended for the investigation of energy and angular distributions of slow neutrons. The recording unit of the analyzer consists of a ferrite-core memory and a magnetic-tape of 6.25 mm width with four-track recording. The combination of integrating and non-integrating memory devices makes it possible to construct a flexible memory system having large capacity as well as permitting the exercise of control over the course of the experiment, preliminary adjustments, preliminary processing of information, etc. The analyzer consists of the following fundamental units, constructed entirely of semiconductor and magnetic elements: a) input unit; b) ferrite-core memory; c) magnetic-tape memory; d) equalizing unit (intermediate ferrite memory); e) unit for insertion and processing

Card 1/2

L 34779-66

ACC NR: AR6017200

of data. Depending on the chosen operating conditions, the functional connection between the blocks is changed by means of switches. The analyzer is constructed in the form of four individual racks with individual power supplies and control panels. L. S. [Translation of abstract]

SUB CODE: 20, 09

Cord 2/2 ✓

L 44688-66 EWT(m)/Y DJ/WW

ACC NR: AP6005369 (A) SOURCE CODE: UR/0413/66/000/001/0116/0117

AUTHOR: Gerasimov, B. Ya.

ORG: none

TITLE: Supporting-thrust friction bearing.¹⁷ Class 47, No. 177710

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 1, 1966, 116-117

TOPIC TAGS: hydraulic device, hydraulic equipment, lubricating oil, bearing stability

ABSTRACT: This Author Certificate presents a supporting-thrust friction bearing¹¹³ consisting of a two-sided thrust bearing and support bearing. The bearing is provided with an unloading chamber connected to the source of oil pressure and providing a partial hydraulic unloading of the thrust bearing. To increase the force of lubricant circulation in the supporting bearing, the latter is made in the form of two bearings with different diameters. The opening between these two bearings serves as the unloading chamber. To provide for automatic change in the degree of unloading of the thrust bearing to correspond to the change in the axial loading of the shaft, the opening between the supporting bearings is connected to the system of the hydraulic shaft support. The oil pressure in this system is automatically regulated.

SUB CODE: 13/ 26May61

Card 1/1 hs

UDC: 621.822.2:621.822.5

GERASIMOV, D.

How we are improving the living conditions of the workers. Zhil.
-khu.khu.5 no.6:18 '55. (MIRA 9:1)

1. Upravlyayushchiy domoupravleniya №.119 Kuybyshevskogo rayona
Leningrada. (Leningrad--Apartment houses--Management)

GERASIMOV, D.A., inzh.; GROSH, K.A., inzh.; CHERNYSHEV, A.S., inzh.

Making large foundation blocks in construction yards under
winter conditions. *Biul.stroi.tekh.* 12 no.9:6-7 S '55.

(MIRA 12:1)

1. Treat Chelyabmetallurgstroy.

(Foundations) (Concrete blocks--Cold weather conditions)

GKRASIMOV, D.D. [Herasymov, D.D.]; SHKOL'NIKOV, B., red.; PETRONYUK, L.,
tekh.n.red.

[Crimes in photographic illustrations] Krym u fotoilustratsiakh.
Kyiv, Derzh.vyd-vo obrazotvorchoho mystetstva i mazychnoi lit-ry
URSR, 1959. 1 v. (MIRA 13:4)
(Crimes--Views)

GERASIMOV, D.D.

[The Crimea in photographs] Krym v fotoillustratsiakh.
Kiev, Gos.isd-vo izobraz.iskus. i muzykal'noi lit-ry USSR,
1960. 1 v. (MIRA 14:2)
(Crimea--Views)

E. D. GERASIMOV, D. F.

Russia

124

The Use of a Plastic Mass in Lathe Fixtures and Inspection Jigs

By R. K. DORNA and D. F. GERASIMOV: *From: Stanki i Instrumenty*, No. 11, 1950, pp. 11-17 and No. 11, 1951, pp. 10-12, 23 illustrations.

Examples of lathe fixtures and inspection jigs using a plastic mass to transmit clamping pressure to an elastically deformable collar or mandrel member, or to a plunger member, are illustrated. The elastic analysis of free and restrained short cylindrical shells, as applied to such fixtures, is reviewed. Design and manufacturing recommendations are given. The composition of a malleable plastic mass and its processing are described.

A PLASTIC mass behaving somewhat like an incompressible liquid under the action of a plunger can be a useful component in jigs and fixtures. The mechanism is manipulated either by hand or operated by pneumatic or hydraulic means.

The lathe fixtures described here embody four types of clamping: (1) The clamping of components having a cylindrical hole by the expansion of an inner mandrel (Fig. 1); (2) the clamping of a component with an external cylindrical member, by the contraction of an outer collet (Fig. 2); (3) simultaneous clamping of a component by means of a number of dog clamps (Fig. 3) and (4) the simultaneous clamping of a component by a mandrel or a collet and by a number of dog clamps (Fig. 4).



Fig. 1. Mandrel fixture.

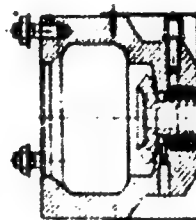


Fig. 2. Collet fixture.

over

GERASIMOV, D.F.

LEKHIN, S.G., inzhener; GERASIMOV, D.F., inzhener.

Using hydroplastics in machine attachments and in control and measuring instruments. [Izd] LONITOMASH 25:43-58 '52.

(Machine tools--Accessories and attachments) (MLRA 8:2)

(Plastics) (Measuring instruments)

18.8310

87007
S/193/60/000/007/012/012
A005/A001

AUTHOR: Gerasimov, D. F.

TITLE: The Application of Water-Repelling Means to Anticorrosion Protection in Czechoslovakia

PERIODICAL: Byulleten' tekhniko-ekonomicheskoy informatsii, 1960, No. 7, pp.79-81

TEXT: In the Czechoslovakian Republic, wide investigations were carried out on the application of anticorrosion protection by means of special chemical water-repelling means. This corrosion protection mode is effective and economically efficient because the materials applied as well as the organization of their production do not demand fundamental expenditures, and it can be used during the preparation, assembling, and storing of the articles. For obtaining an effective lacquer-paint protection coating, a completely pure and dry surface is needed. Hitherto, water is removed from the surface of an article or part commonly by a hot air stream, or drying was carried out by submerging the article into solvents having a low boiling point (alcohol, benzine, etc.). When drying with water-repelling media a solvent is used as fundamental component actively affecting the surface. This method facilitates the drying of the surface and assures the good

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87007

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A005/AOC1

The Application of Water-Repelling Means to Anticorrosion Protection in Czechoslovakia

preparation for the application of the coating layer. Water-repelling media are prepared from compounds and mixtures fulfilling the following conditions: they must not emulsify, they must have maximum solubility in organic solvents, they must be immiscible with water, they must have minimum solubility in water, and they must be stable, non-toxic and effective, even at low concentrations. As follows from the tests, these conditions are fulfilled only by a small number of compounds embraced by the following four groups: monobasic alcohols of the $C_4 - C_8$ aliphatic chain, solutions of naphthenate salts, solutions of benzine soaps, and the solution of 1-hydroxy-ethyl-2-heptadecenyl-imidazoline. - For testing the efficiency of these compounds, the horizontal and vertical test methods were used. In the horizontal method, a glass plate freed from fat is wet with water in such a manner that a continuous film is formed over its surface. A droplet (0.05 ml) of the solution to be tested will be dropped down accurately into the plate center from the height of 1 cm, and the water-repelling rate as well as the area of the surface from which water is repelled are observed. Hereat, the water-repelling ability was stated for the following substances: the naphthenates of Al, Zn, Ca,

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A005/A001

The Application of Water-Repelling Means to Anticorrosion Protection in Czechoslovakia

Fe, Pb, Mn, Cu, dimethyl-propyl-alcohol, butyl alcohol, normal and ternary amyl alcohol, isoamyl alcohol, hexanol alcohol, octyl alcohol, cetyl alcohol, and allyl alcohol. The listed substances are soluble in commercial benzine, oil, lacquer benzine, and kerosene. - In the vertical test method, steel plates of 30 x 80 mm sizes are submerged in water or a 30%-solution of sodium chlorides (table salt) after their cleaning and fat extraction. After 3-5 seconds the plates are carefully drawn out in such a manner that a continuous water film is maintained over the whole plate surface. After that, the plates will be submerged into a solution of the water-repelling substance for 2 minutes; then the plates are drawn out of the solution and maintained in vertical position for 1 hour under normal conditions. The plates under test must become well dry in this time, and neither corrosion marks nor other modifications must be marked over their surface. This test allows the evaluation of the substances not only as to their effectiveness but also the water-repelling rate depending on their concentration. - The vertical test method yielded good results when applying solutions of the naphthenate salts of various metals, but the naphthenate of aluminum proved to be most effective. The solutions of metal naphthenates leave after solvent's evaporation a thin film

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87007

S/193/60/000/007/012/012

A005/A001

The Application of Water-Repelling Means to Anticorrosion Protection in Czechoslovakia

over the metal plate surface protecting this from corrosion. The naphthenate film can be removed by the common organic solvents. In the same manner, the benzine soap solution yields a thin film protecting from corrosion. The optimum concentration of benzine soap amounts to 5%. Increase in the concentration up to 15% increases the water-repelling rate. At the concentration diminished down to 1%, its repelling properties are preserved. - Good testing results were obtained with hydroxy-ethyl-2-heptadecenyl-imidazoline yielding high effectiveness just for the concentration lower than 1% (down to 0.05%) which allows the preparation of a low-viscous water-repelling substance. - Good test results yielded also a mixture of following composition: 1-hydroxy-ethyl-2-heptadecenyl-imidazoline (1%), commercial lanolin (30%), and benzine or kerosene (69%). - Very good results yielded the mixture of 50 portions of lacquer benzine, 80 portions of acetone, 10 portions of aliphatic acid, 5.5 portions of triethanolamine, and 20 portions of castor oil; this mixture is a pure red-brown low-viscous liquid with extraordinary water-repelling properties; the repelling rate is a little greater than that of the benzine-soap solutions and near the effectiveness of the 1-hydroxy-ethyl-2-heptadecenyl-imidazoline solution, but the solvent mixture used is

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The Application of Water-Repelling Means to Anticorrosion Protection in Czechoslovakia

inflammable. - In Czechoslovakia, only benzine soap is in industrial use because it exists in the country in unlimited quantity. Aluminum naphthenate is not produced in the country in the quantity needed, and the production of 1-hydroxyethyl and 2-heptadecenyl imidazoline is just started. - The tests showed that the mixtures of triethanolamine and castor oil on the aliphatic acid base are considerably more expensive than benzine soap. - The articles are treated with water-repelling substances in the Czechoslovakian plants by wetting; big articles are submerged, and more seldom, the solutions are applied with brushes or by spray guns at low pressures and from small distances. There is 1 Czech reference. X

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